**Reebops**

****

“Reebops” are imaginary organisms that tend to live in discarded soda pop cans. However, they are rarely seen in the wild as they are extremely fast. Once you have a male and female in captivity, your room will soon be FILLED with Reebops. There is tremendous variation that exists within the Reebop species.

**Your Task:** In groups of 4, you will be given the chromosomes from 2 parent Reebops. You must figure out the genotype of your Reebop offspring for a variety of different characteristics.

**Step 1:** Determine the genotype and phenotype for each trait that your Reebop offspring carries (using the key below)

**Step 2:** Determine the type of dominance that each trait follows.

**Step 3:** Draw your Reebop on the chart paper provided and be prepared to describe your Reebop to the class.

****

**Antenna:**

**Nose Colour:**

**Eyes:**

**Body Segments:**

**Green Humps:**

**Tail shape:**

**Leg colour:**

|  |  |  |
| --- | --- | --- |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **A** |  | **a** |
|  |  |  |
| **Q** |  | **q** |
|  |  |  |
| **E** |  | **e** |
|  |  |  |
| **D** |  | **d** |
|  |  |  |
| **M** |  | **m** |
|  |  |  |
| **T** |  | **t** |
|  |  |  |
| **L** |  | **l** |

|  |  |  |
| --- | --- | --- |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **a** |  | **a** |
|  |  |  |
| **q** |  | **q** |
|  |  |  |
| **E** |  | **e** |
|  |  |  |
| **D** |  | **d** |
|  |  |  |
| **M** |  | **m** |
|  |  |  |
| **t** |  | **t** |
|  |  |  |
| **l** |  | **l** |

|  |  |  |
| --- | --- | --- |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **A** |  | **A** |
|  |  |  |
| **Q** |  | **Q** |
|  |  |  |
| **e** |  | **e** |
|  |  |  |
| **d** |  | **d** |
|  |  |  |
| **m** |  | **m** |
|  |  |  |
| **T** |  | **T** |
|  |  |  |
| **L** |  | **L** |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **A** |  | **A** |
|  |  |  |
| **Q** |  | **Q** |
|  |  |  |
| **E** |  | **e** |
|  |  |  |
| **D** |  | **d** |
|  |  |  |
| **M** |  | **m** |
|  |  |  |
| **T** |  | **t** |
|  |  |  |
| **L** |  | **l** |

|  |  |  |
| --- | --- | --- |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **A** |  | **a** |
|  |  |  |
| **Q** |  | **q** |
|  |  |  |
| **e** |  | **e** |
|  |  |  |
| **D** |  | **d** |
|  |  |  |
| **M** |  | **M** |
|  |  |  |
| **T** |  | **T** |
|  |  |  |
| **L** |  | **L** |

|  |  |  |
| --- | --- | --- |
| **Parent Reebop 1** |  | **Parent Reebop 2** |
| **a** |  | **A** |
|  |  |  |
| **Q** |  | **q** |
|  |  |  |
| **e** |  | **E** |
|  |  |  |
| **D** |  | **d** |
|  |  |  |
| **M** |  | **M** |
|  |  |  |
| **T** |  | **t** |
|  |  |  |
| **L** |  | **L** |